

Claims

- [c1] An endshield for an electric motor, said end shield comprising:
a body; and
a capacitor cover extending radially outward from said body.
- [c2] An endshield in accordance with Claim 1 wherein said body further comprises at least one mounting ear extending from said body, said at least one mounting ear having a slot.
- [c3] An endshield in accordance with Claim 1 wherein said capacitor cover comprises a partially spherical wall extending from said body.
- [c4] An endshield in accordance with Claim 1 wherein said capacitor cover further comprises a wall extending from said body and a top extending from said body, said top connected to said wall.
- [c5] An endshield in accordance with Claim 4 wherein said wall comprises a first wall portion extending from said body, a second wall portion extending from said body and a third wall portion, said third wall portion connecting said first wall portion and said second wall portion.
- [c6] An endshield in accordance with Claim 2 wherein said at least one mounting ear further comprises a recess sized to receive a fastener.
- [c7] An endshield for an electric motor, said end shield comprising:
a body; and
at least one mounting ear extending from said body, said at least one mounting ear having a slot.
- [c8] An endshield in accordance with Claim 7 wherein said at least one mounting ear further comprises an opening extending therethrough and a first side, said slot extending through said mounting ear from said opening through said first side.
- [c9] An endshield in accordance with Claim 8 wherein said at least one mounting ear generally c-shaped.
- [c10] An endshield in accordance with Claim 7 wherein said endshield comprises a plurality of mounting ears each having a slot.

- [c11] An endshield in accordance with Claim 10 wherein said plurality of slots pointing in generally the same radial direction.
- [c12] An endshield in accordance with Claim 7 wherein said at least one mounting ear further comprises a recess sized to receive a fastener.
- [c13] An endshield for an electric motor, said endshield comprising a body and at least one mounting ear extending from said body, said at least one mounting ear having a first side and an opening extending through said at least one mounting ear, said at least one mounting ear further comprising a slot extending therethrough from said opening through said first side.
- [c14] An electric motor assembly comprising:
a motor housing;
a stator mounted in said housing and comprising a bore therethrough, said stator having at least one main winding and at least one auxiliary winding;
a rotor core rotatably mounted in said housing and extending through said stator bore;
a capacitor in series with said auxiliary winding; and
an endshield connected to said housing, said endshield comprising a body and at least one mounting ear extending from said body, said at least one mounting ear having a slot.
- [c15] An electric motor assembly in accordance with Claim 14 wherein said endshield further comprises a capacitor cover extending from said body.
- [c16] An electric motor assembly in accordance with Claim 15 wherein said capacitor cover comprises a top extending from said body, a first wall portion extending from said body, a second wall portion extending from said body and a third wall portion, said third wall portion connecting said first wall portion and said second wall portion.
- [c17] An electric motor assembly in accordance with Claim 14 wherein said at least one mounting ear further comprising an opening extending therethrough and a first side, said slot extending through said mounting ear from said opening through said first side.
- [c18] A method of mounting an electric motor assembly to a machine, the electric motor assembly including a motor housing, a capacitor having at least one terminal, and an endshield, the endshield including a body, said method comprising:

providing a capacitor cover extending from the endshield body; and
mounting the endshield to the motor housing such that the capacitor cover covers the at
least one capacitor terminal.

[c19] A method in accordance with Claim 18 wherein providing a capacitor cover extending
from the endshield body further comprises providing a capacitor cover having a top
extending from the body, a first wall portion extending from the body, a second wall
portion extending from the body, and a third wall portion connecting the first wall
portion and the second wall portion.

[c20] A method in accordance with Claim 18 wherein the capacitor includes a plurality of wires,
said method further comprises mounting the endshield to the motor housing such that
the capacitor cover covers the capacitor wires.

[c21] A method in accordance with Claim 20 wherein mounting the endshield to the motor
housing further comprises mounting the endshield to the motor housing such that the
terminals and wires are covered and within UL requirements.